

SAF-RC-040
300 Area D&D Waste Characterization
Sampling - Other Solid
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Renee Nielson L1-01

KW 5/1/07
INITIAL/DATE

COMMENTS:

SDG 07-A-2081

SAF-RC-040

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

Sample Location/Waste Site: 308 Building

RECEIVED
MAY 29 2007

EDMC



4/30/07
Page 1 of 5

SUBMITTED TO:

Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

Client Sample No.:	J14YN9 through J14YR7
P.O. No.:	Not Available
Sample Location:	308 Building
Sample Type:	Bulk
Method Reference:	EPA-600/R-93/116
DCL Set ID No.:	07-A-2081
DCL Sample ID No.:	07-12447 through 07-12465
Sample Receipt Date:	4/20/07
Analysis Date:	4/30/07

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


for Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government.

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4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3708
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NOVATO, CALIFORNIA 94945
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RC-040

DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report

Client: Washington Closure Hanford
 Location: 308 Building
 Set ID: 07-A-2081

Client Sample ID:	J14YN9	J14YP0	J14YP1	J14YP2	J14YP3
DCI. Sample ID:	07-12447	07-12448	07-12449	07-12450	07-12451
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Fibrous	Pwdry/Fbrs	Pwdry/Fbrs	Pwdry/Fbrs	Pwdry/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>20 ≤ 30	>5 ≤ 10			
% Amosite:		>10 ≤ 20	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>20 ≤ 30	>15 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30
Other Materials					
% Cellulose:	>40 ≤ 50	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>10 ≤ 20	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


 Shawn Smythe
 Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

4/30/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

Client: Washington Closure Hanford
Location: 308 Building
Set ID: 07-A-2081

Client Sample ID:	J14YP4	J14YP5	J14YP6	J14YP7	J14YP8
DCL Sample ID:	07-12452	07-12453	07-12454	07-12455	07-12456
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered Inseparable	Homog.	Homog.	Homog.
Color:	Grey	Yellow/Tan	Grey	Grey	Grey
Texture:	Fibrous	Fibrous	Pwdry/Fbrs	Pwdry/Fbrs	Pwdry/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>20 ≤ 30			>5 ≤ 10	
% Amosite:			>20 ≤ 30	>10 ≤ 20	>20 ≤ 30
% Crocidolite:					>1 ≤ 3
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>20 ≤ 30	ND	>20 ≤ 30	>15 ≤ 30	>21 ≤ 33
Other Materials					
% Cellulose:	>40 ≤ 50	>10 ≤ 20	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10
% Fiberglass:		>60 ≤ 70			
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>10 ≤ 20	>5 ≤ 10	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

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4/30/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**

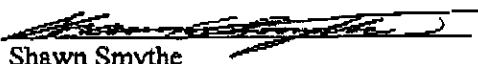
Client: Washington Closure Hanford
Location: 308 Building
Set ID: 07-A-2081

Client Sample ID:	J14YP9	J14YR0	J14YR1	J14YR2	J14YR3
DCL Sample ID:	07-12457	07-12458	07-12459	07-12460	07-12461
Macroscopic Examination					
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Homog.	Homog.	Homog.	Homog.
Color:	Grey	Grey	Grey	Grey	Grey
Texture:	Fibrous	Pwdry/Fbrs	Pwdry/Fbrs	Pwdry/Fbrs	Pwdry/Fbrs
Description:	Material	Material	Material	Material	Material
Analysis:	PLM	PLM	PLM	PLM	PLM
Asbestiform Minerals					
% Chrysotile:	>20 ≤ 30				>10 ≤ 20
% Amosite:		>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>10 ≤ 20
% Crocidolite:					
% Tremolite - Actinolite:					
% Anthophyllite:					
% Total Asbestos:	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 30	>20 ≤ 40
Other Materials					
% Cellulose:	>40 ≤ 50	>5 ≤ 10	>5 ≤ 10	>5 ≤ 10	
% Fiberglass:					
% Other Fibers:					
% Resin/Binder:					
% Non Fibrous:	>10 ≤ 20	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60	>50 ≤ 60

ND = None Detected Tracc = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

4/30/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 308 Building
Set ID: 07-A-2081

Client Sample ID:	J14YR4	J14YR5	J14YR6	J14YR7
DCL Sample ID:	07-12462	07-12463	07-12464	07-12465
Macroscopic Examination				
Accepted/Rejected:	Accepted	Accepted	Accepted	Accepted
Homogeneity:	Homog.	Layered	Homog.	Homog.
Color:	Grey	Yellow/Grey	Grey	Grey
Texture:	Crmby/Fbrs	Fibrous	Pwdry/Fbrs	Fbrs/Crmby
Description:	Material	Material	Material	Ceiling Tile
Analysis:	PLM	PLM	PLM	PLM
Asbestiform Minerals				
% Chrysotile:			>1 ≤ 3	
% Amosite:			>20 ≤ 30	
% Crocidolite:				
% Tremolite - Actinolite:				
% Anthophyllite:				
% Total Asbestos:	ND	ND	>21 ≤ 33	ND
Other Materials				
% Cellulose:		>10 ≤ 20	>5 ≤ 10	>40 ≤ 50
% Fiberglass:	>20 ≤ 30	>60 ≤ 70		>20 ≤ 30
% Other Fibers:	>5 ≤ 10			
% Resin/Binder:				
% Non Fibrous:	>50 ≤ 60	>5 ≤ 10	>50 ≤ 60	>10 ≤ 20

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting, ... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258		Page 2 of 10													
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days													
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 308 Building				SAF No. RC-040															
Ice Chest No. FEDEX BOX		Field Logbook No. EL-1518-EL-1603		COA See Below		Method of Shipment Federal Express															
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070261				Bill of Lading/Air Bill No. See OSPC															
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage					Preservation	None															
					Type of Container	GP															
					No. of Container(s)	1															
					Volume	5g															
SAMPLE ANALYSIS 07-A-2081					Asbestos- BULK-EPA																
Sample No.	Matrix *	Sample Date	Sample Time																		
J14YN9 12447	OTHER SOLID	4-18-07	0800	X																	
J14YP0 12448	OTHER SOLID	4-18-07	0810	X																	
J14YP1 12449	OTHER SOLID	4-18-07	0815	X																	
J14YP2 12450	OTHER SOLID	4-18-07	0820	X																	
J14YP3 12451	OTHER SOLID	4-18-07	0830	X																	
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R30800 1000						Matrix * S=Soil SE=Sediment SO=Solid Sl=Sledge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Tissue Wl=Wipe L=Liquid V=Vegetation X=Other							
Relinquished By/Removed From				Received By/Stored In																	
T. Lee 4-18-07/1230				3728 3C 4-18-07/1230				Sampler unavailable to relinquish samples from 3728 Ref # 3C 3728 Custodian removed samples for shipping on 4/19/07.													
Relinquished By/Removed From				Received By/Stored In																	
3728 3C APR 19 2007 0830				APR 19 2007 0830																	
Relinquished By/Removed From				Received By/Stored In																	
K. Smith 4-19-07 1500				FED EX																	
Relinquished By/Removed From				Received By/Stored In																	
Fedex				4/20/07 0919																	
Relinquished By/Removed From				Received By/Stored In																	
Relinquished By/Removed From				Received By/Stored In																	
LABORATORY SECTION		Received By		Title		Date/Time															
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time															

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258		Page <u>2</u> of <u>4</u>	
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH		Price Code 9K Data Turnaround 7 Days	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 308 Building		SAF No. RC-040					
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-		COA See Below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070261				Bill of Lading/Air Bill No. See OSCP			
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage		Preservation		None					
		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 2081				Asbestos- BULK-EPA					
Sample No.		Matrix *		Sample Date		Sample Time			
J14YP4 12452		OTHER SOLID		4-18-07		0845		X	
J14YP5 12453		OTHER SOLID		4-18-07		0850		X	
J14YP6 12454		OTHER SOLID		4-18-07		0855		X	
J14YP7 12455		OTHER SOLID		4-18-07		0858		X	
J14YP8 12456		OTHER SOLID		4-18-07		0905		X	
CHAIN OF POSSESSION				Sign/Print Names				SPECIAL INSTRUCTIONS	
Relinquished By/Removed From <i>Tim Lee</i>		Date/Time 4-18-07/1230		Received By/Stored In 3728 3C		Date/Time 4-18-07 1230		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R30800 1000 Matrix * S=Soil SE=Sediment SO=Solid SI=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Time WI=Wipe L=Liquid V=Vegetation X=Other	
Relinquished By/Removed From 3728 3C		Date/Time 0830 APR 19 2007		Received By/Stored In <i>[Signature]</i>		Date/Time APR 19 2007 0830			
Relinquished By/Removed From <i>[Signature]</i>		Date/Time APR 19 2007 1500		Received By/Stored In FED EX		Date/Time			
Relinquished By/Removed From FED EX		Date/Time		Received By/Stored In <i>[Signature]</i>		Date/Time 4/20/07 0919			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By <i>[Signature]</i>		Date/Time 4/20/07 0919		Title			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Sampler unavailable to relinquish samples from 3728 Ref # 3C
3728 Custodian removed samples for shipping on **4/19/07**

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258		Page <u>1</u> of <u>10</u>	
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH		Price Code 9K	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sample Location 308 Building		SAF No. RC-040		Data Turnaround 7 Days			
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-		COA See Below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070261		Bill of Lading/Air Bill No. See OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage		Preservation		None					
		Type of Container		G/P					
		No. of Container(s)		1					
		Volume		5g					
SAMPLE ANALYSIS 2081				Asbestos- BULK-EPA					
Sample No.		Matrix *		Sample Date		Sample Time			
J14YP9 12457		OTHER SOLID		4-18-07		0910		X	
J14YR0 12458		OTHER SOLID		4-18-07		0915		X	
J14YR1 12459		OTHER SOLID		4-18-07		0925		X	
J14YR2 12460		OTHER SOLID		4-18-07		0940		X	
J14YR3 12461		OTHER SOLID		4-18-07		0950		X	
CHAIN OF POSSESSION				Sign/Print Names		SPECIAL INSTRUCTIONS			
Relinquished By/Removed From TA Lee		Date/Time 4-18-07 1230		Received By/Stored In 3728 SC		Date/Time 4-18-07 1230		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R30800 1000 Sampler unavailable to relinquish samples from 3728 Ref # 3C 3728 Custodian, removed samples for shipping on 4/19/07	
Relinquished By/Removed From 322B 3C		Date/Time APR 19 2007 0830		Received By/Stored In K015 Sample		Date/Time APR 19 2007 0830			
Relinquished By/Removed From WMS/Indon		Date/Time APR 19 2007 1400		Received By/Stored In FED EX		Date/Time 4/20/07 0919			
Relinquished By/Removed From Fedex		Date/Time 4/20/07 0919		Received By/Stored In 4/20/07 0919		Date/Time 4/20/07 0919			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By Ja-Luo		Date/Time 4/20/07 0919					
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			

Washington Closure Hanford		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				RC-040-258		Page <u>4</u> of <u>10</u>	
Collector Mike Stankovich/Tim Lee		Company Contact Tim Lee		Telephone No. 373-4596		Project Coordinator KESSNER, JH		Price Code 9K	
Project Designation 300 Area D&D Waste Characterization Sampling - Other Soli		Sampling Location 308 Building		SAF No. RC-040		Data Turnaround 7 Days			
Ice Chest No. FED EX BOX		Field Logbook No. EL-1518-		COA See Below		Method of Shipment Federal Express			
Shipped To DataChem Laboratories - Cincinnati		Offsite Property No. A070261		Bill of Lading/Air Bill No. See OSPC					
POSSIBLE SAMPLE HAZARDS/REMARKS Asbestos Special Handling and/or Storage					Preservation		None		
					Type of Container		G/P		
					No. of Container(s)		1		
					Volume		5g		
SAMPLE ANALYSIS <div style="font-size: 2em; text-align: center;">2081</div>					Asbestos- BULK-EPA				
Sample No.		Matrix *		Sample Date		Sample Time			
J14YR4 12462		OTHER SOLID		4-18-07		0955		X	
J14YR5 12463		OTHER SOLID		4-18-07		1000		X	
J14YR6 12464		OTHER SOLID		4-18-07		1005		X	
J14YR7 12465		OTHER SOLID		4-18-07		1010		X	
J14YR8		OTHER SOLID						He 4/18/07	
CHAIN OF POSSESSION					SPECIAL INSTRUCTIONS				
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time		Laboratory Analysis, Data Management, and Shipping COA - RD4MXX2F00 Sampling COA - R30800 1000 Sampler unavailable to relinquish samples from 3728 Ref # 3C. 3728 Custodian removed samples for shipping on 4/19/07.	
TALC 4/18/07 1230		3728 3C		4/18/07 1230					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
3728 3C		APR 19 2007 0830		Km Singleton		APR 19 2007 0830			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Km Singleton		APR 19 2007 1500		FED EX					
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
FED EX		4/20/07 0919							
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
Relinquished By/Removed From		Date/Time		Received By/Stored In		Date/Time			
LABORATORY SECTION		Received By		Title		Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		Disposed By		Date/Time			